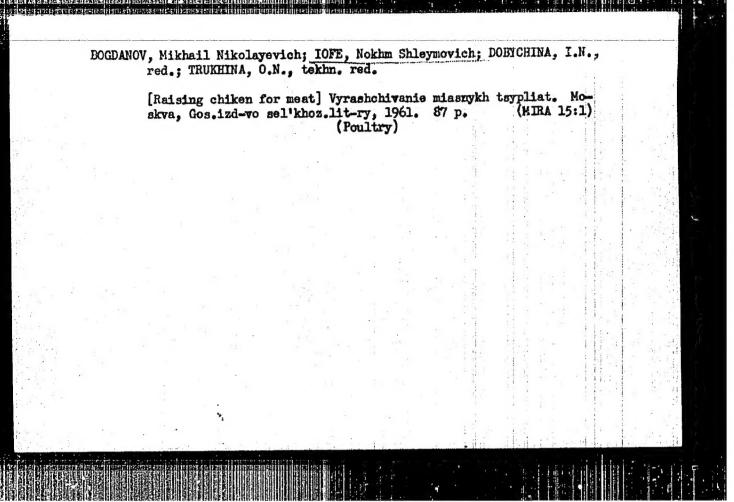


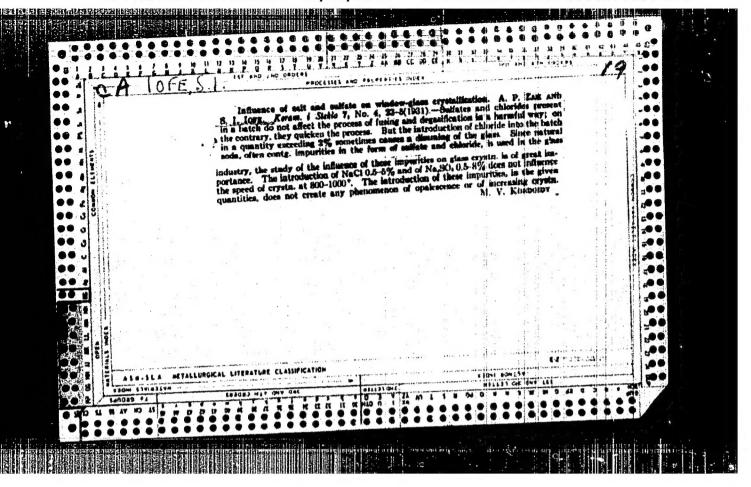
ARSENSHVILI, A.Yu.; BOGDANOV, M.N.; GORIZONTOVA, Ye.A.; YERSHOVA, Ye.I.;
YELENBAUM, N.I.; IOFE, N.Sh.; KARAVAYEV, A.M.; KOLOBOV, G.M.;
LOBIN, N.V., kand. sel'khoz. nauk; KUSHNER, Kh.F., doktor bilog.
nauk; MISHIN, P.N.; PATRIK, I.A., kand. sel'khoz. nauk; REDIKH,
V.K., kand. sel'khoz. nauk; SEMTNEV, S.I., akademik; SAMOLETOV,
A.I.; FILASOV, V.V.; SHKUDOVA, R.I.; SOKOLOVA, G.S., red.;
ROMANOVICH, Ye.F., red.; LEVINA, L.G., tekhn. red.

[Chickens for meat] TSypliata na misso. Meabre. Induction

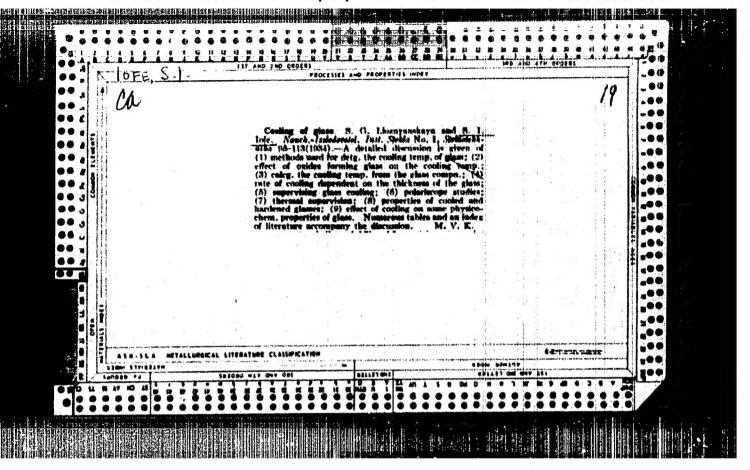
[Chickens for meat] TSypliata na miaso. Moskva, Izd-vo M-va sel'.khoz. RSFSR, 1960. 197 p. (MIRA 15:1) (Poultry)



"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618620012-5



"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618620012-5



EUROV, A.K., dektor tekhnicheskikh nauk; ANDREYEVSKAYA, G.D., kandidat tekhnicheskikh nauk; CHMUTOV, K.V., redaktor; IOPE S.I., redaktor; ZELENKOVA, Ye.V., tekhnicheskiy redaktor.

[Anisotropic glass-fiber materials and their technical use] Stekleveleknistys amisetropays materialy i ikh tekhnicheskes primenemis. Moskva, Isd-vo Akademii mauk SSSR, 1956. 69 p. (MIRA 9:6)

1.Chlen-kerrespendent AN SSSR (for Chmutev)
(Glass fiber)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618620012

AUTHORS:

Pik, I. Sh., Zaytseva, A. M., in Collaboration With Iofe, S. S.

64-58-2-13/16

TITLE:

Intensification of the Process of Pressing Aminoplastics (Intensifikatsiya protsessa pressovaniya aminoplastov)

PERIODICAL:

Khimicheskaya Promyshlennost, 1958, Nr 2, pp. 54-56

(USSR)

ABSTRACT:

In the below mentioned plant for plastics it was decided upon to introduce a differentiation of the pressing exposure, a tableting, high-frequency heating as well as higher temperatures and lower specific pressure in the pressing of aminoplastics for the purpose mentioned in the title. Corresponding to the mentioned hardening velocities it was found that the use of differentiated exposures gives the possibility of increasing the productivity by 6%. The tableting carried out with the investigated aminoplas= tics showed that at various temperatures of pressing a shortening of the exposure could be obtained. Then it is pointed out that the tableting of aminoplastics must be improved, and besides it was mentioned that tableting

Card 1/3

Intensification of the Process of Pressing Aminoplastics

64-58-2-13/16

Fig. .. di ad akikatalahiji bilibiki alah daj

can cause unfavorable phenomena in some articles. The use of high-frequency current for heating aminoplastics show wed that also a considerable shortening of the period of pressing exposure was achieved, no degradation of the physico-chemical and physico-mechanical properties, respectively, of finished products having been observed. The investigations of the influence of the pressing temperatus re showed that the shortest period of pressing exposure is at 150±3°C, differentiations being mentioned referring to the quality and individual properties, respectively, of the finished product. Data in tables are given on the results obtained just as well as investigations of the quality of the finished product. The experiments carried out at various specific pressure (265, 250, 200 and 100 kg/cm2) yielded positive results with the exception of the last lowest value at which the sample showed a pad after the experiment. It is recommended to employ the a= bove mentioned ideas; at the same time it is necessary to carry out a reinforcement of the presses as well as the

Card 2/3

STANDARD CONTROL BY THE PARTIES OF T

Intensification of the Process of Pressing

Aminoplastics

supply of the high-frequency plants with control apparatus, an improvement of the quality and a standardimation.

There are 5 tables and 0 references.

ASSOCIATION: Karacharovskiy zavod plastmass (Plant for Plastics)

AVAILABLE: Library of Congress

1. Plastics--Processing 2. Plastics--Temperature factors 3. Plastics--Electrical factors 4. Materials--Production

Card 3/3

IOFE, V. K.

19914 IOFE, V. K.

K.voprosy ob elektroskustike padioveshchate l'nykh priyemnikov

(Po povody stat; V. A. Govyadinova << Elektroskustika radioveschatel'nyth

priyemnikov>>>zhurn.<(radiotekhnika,7/1948, #6) diotekhnika, 1949, #3,

s. 69-72

So: Letopis Zhurnal Statey, Vol. 27, Moskva, 1949

10FE, V.

20707. Iofe, V. 1 Godzevskiy, A. Kakim Dolzhen byt' vysokokachestvemnyy priyemnik.

Po povodu odnoim. stat' i A. Frolova v zhurn. "Radio", 1948, No. 12... Radio, 1949
No. 6, s. 14-16

SO: LETOPIS ZHURNAL STATEY - Vol. 28, Moskva, 1949

IOFE, V. K.; SAPOZHKOV, M. A.

Speech

Problem of the methodology of computing comprehensibility of speech, Trudy Kom. op. akust, No. 6, 1951.

9. Monthly List of Russian Accessions, Library of Congress,

1953. Unclassified.

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618620012-5

IGFS, Viktor Kivovich; PAPERNOV, L.Z., redaktor; MARTSINKRVICH, T.M., redaktor; Scholova, R.Ya., tekhnicheskiy redaktor

[Electroacoustics] Elektroakustika, Moskva, Gos. ind-vo lit-ry po voprosam sviani i radio, 1934. 182 p. (MIRA 8:1)

(Electroacoustics)

CIA-RDP86-00513R000618620012-5 "APPROVED FOR RELEASE: 08/10/2001

POFE, VIKTOR K.

BGOK:

Call Nr: TK 5981.154

AUTHOR:

Iofe, Viktor K.

TITLE:

Electroacoustics (Elektroakustika)

PUB. DATA:

Gosudarstvennoye izdatel'stvo literatury po voprosam svyazi i

radio, Moscow, 1954, 184 pp., 20,000 copies

ORIG, AGENCY: None given

EDITORS:

Responsible Ed.: Papernov, L. Z., Editor: Martsinkevich, T. M.,

Tech. Ed.: Sokolova, R. Ya., Corrector: Dik, I. A.

PURPOSE:

Approved by the Main Administration of Educational Institutions of

the Ministry of Communications as a textbook on electroacoustics

for students of communication tekhnikums.

COVERAGE:

The book presents principles of acoustics; production and transmission of sound, sources and receivers of sound; mechanism of microphones, loudspeakers, telephones, and sound recording and reproduction. The book contains Russian contributions; no personalities

Card 1/5

mentioned. There are 18 references, all of which are USSR.

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IOFF. V.K.; YANFOL'SEIY, A.A.; VARSHAVSEIY, L.A., redaktor; VOROBETSEATA, L.V., verhanicheskiy redaktor.

[Diagrams and tables for calculations in slectroscoustics] Haschetuye grafiki i tablitsy po elektroakustike. Moskva, Gos. energ. izd-vo. 1955. 522 p.

(Electroscoustics)

(Electroscoustics)

Category : USBR/Acounties - Physiological Acousties. Speech and Mizging

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4815

Author

Title

: Design of Transmission Charmels with Limited Power for Articulation,

Orig Pub : Tr. Vses, n.-K im-ta radioveshchat. priema i akust., 1955, vyp. 5,

16-23

Abstract : The dependence of the coefficient of perception of the 1th equalarticulation band pi on the level B's of the formant sensation is represented by a curve baving a varying slope. Therefore, equal increments in E'f cause different increments in p1, depending on the initial value of E'f, which, other conditions being equal, depends on the frequency location of the band. If the channel has limited power, it is convenient to distribute the power among the bands in such a way as to obtain a maximum sum of p1 over the entire range. To calculate the channel, the following equation is derived

E = 10 109 ANG + Q

where Δ N₁ is the power applied to the loudspeaker in the given band, and Q a certain constant for the given band and for the given channel,

: 1/2 Card

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000618620012-5

Category : USSR/Acoustics - Physiological Acoustics. Speech and Singing J-8

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4815

expressed in decibels. Analytical calculation is possible only for the case of two bands. The trial and error method is recommended in which Q is determined for each band and the possible power is gradually applied in equal shares to each band; E', and p, are then calculated; it is determined in what bands the subsequent additions of power are most effective. The result is an establishment of the most suitable distribution.

CIA-RDP86-00513R000618620012-5" APPROVED FOR RELEASE: 08/10/2001

DNEPROVSKAYA, I.A.; IOFE, V.K.; LEVITAS, F.I.

Attemuation of sound propagated in the atmosphere. Akust.zhur. 8 no.3:301-307 '62. (MIRA 15:11)

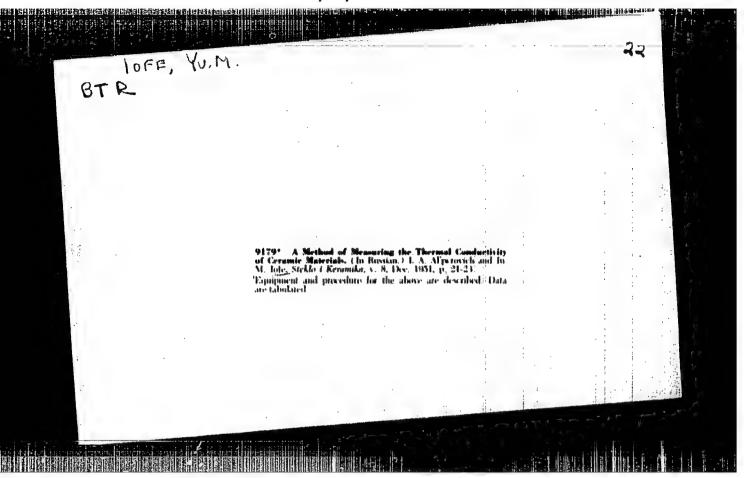
1. Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy institut radioveshchatel'nogo priyema i akustiki im. A.S. Popova, Leningrad. (Atmospheric acoustics)

IOFE, Ta.

Disappearing seasonal production. Mias. ind. SSSR 29 no.5:26-27
'58. (MIRA 11:10)

1. Glavnyy inshener upravleniya mynenoy i molochnoy promyshlennosti Vinnitskogo sovnarkhoza.

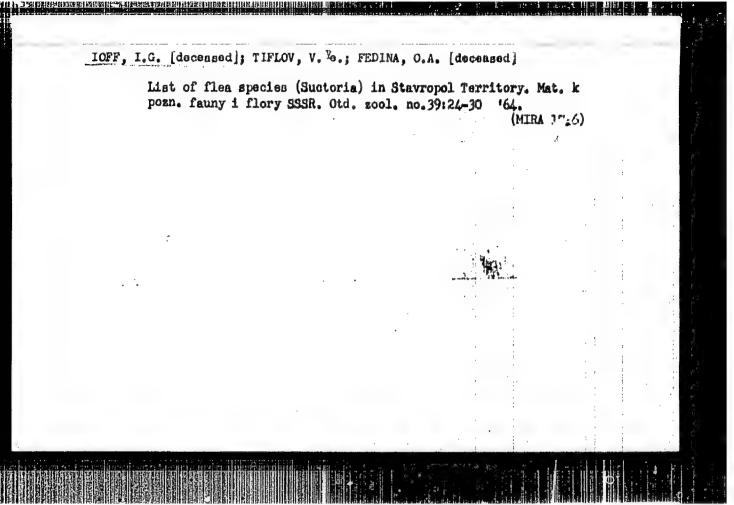
(Vinnitsa--Packing houses)

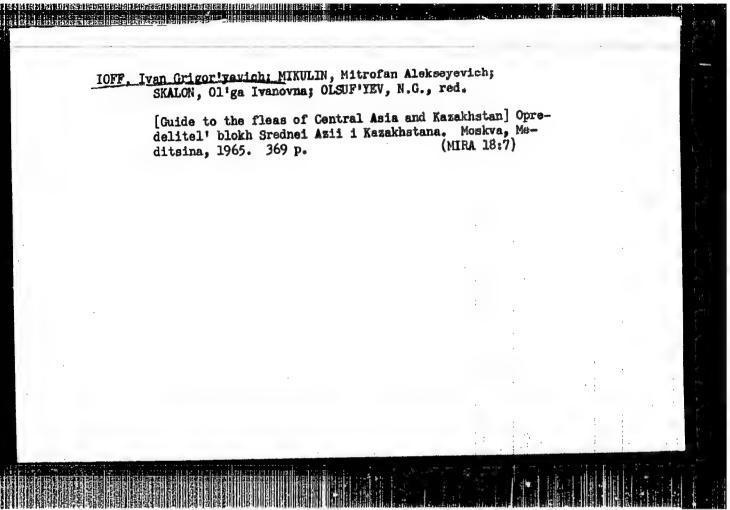


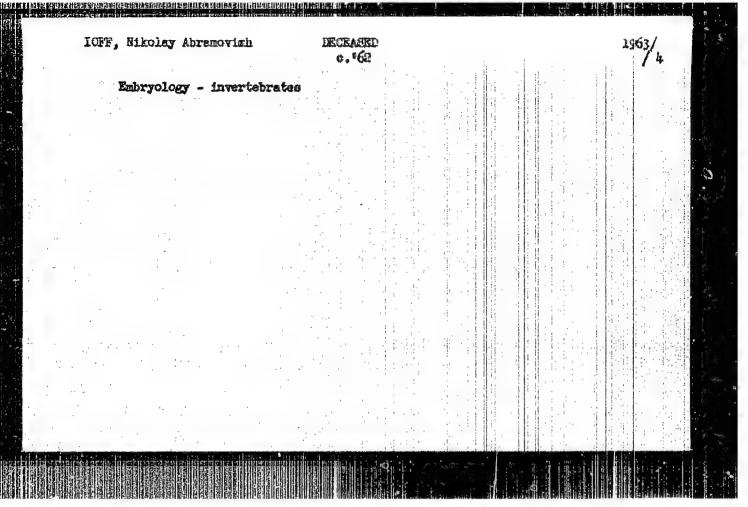
SHINTL'MEYSTER, I.; PUMPER, Ye.Ya., red.; IOFE, Yu.M., red.; MURASHOVA, H.Ya., tekhn.red.

[Electron tube as a device for physical measurements] Elektronnsia lampa kak pribor dlia fizicheskikh izmerenii. Moskva, Gos.izd-vo tekhniko-teoret.lit-ry, 1959. 343 p. (MIRA 12:12) (Electron tubes) (Electric measurements)

APPROVED FOR RELEASE: 08/10/2001





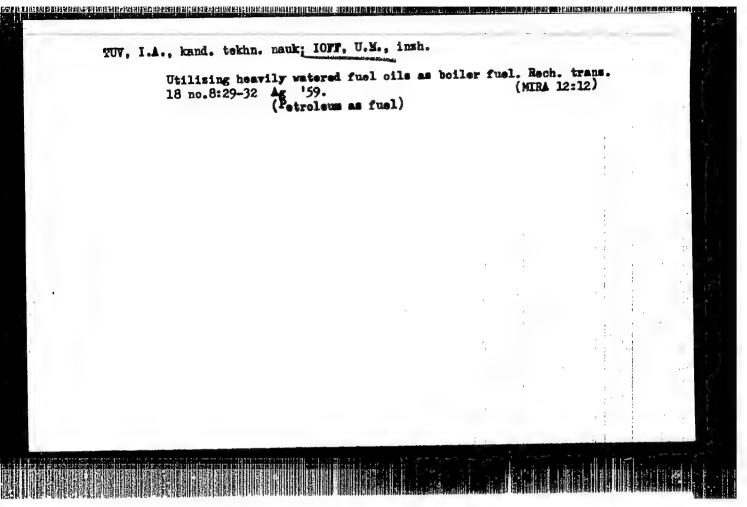


TUV, I.A., kand.tekhn.nauk; IOFF, U.M., inzh.

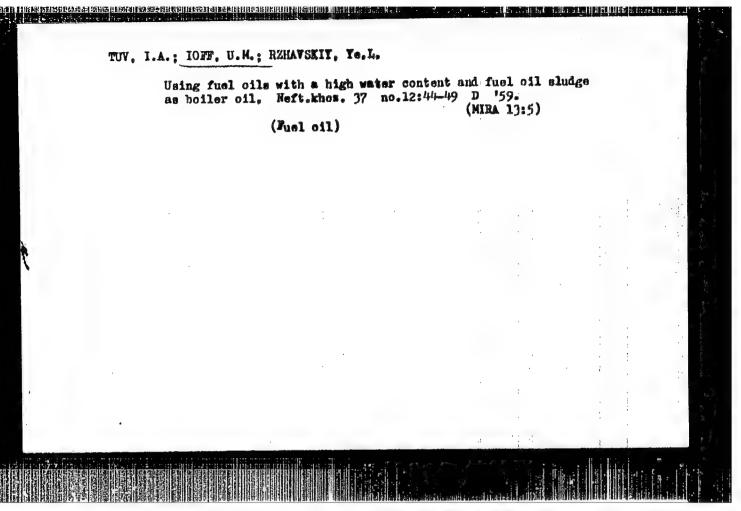
Mfficiency of burning watery fuel oils. Proizv.-tekh. sobr. no.3:3-19 159. (MIRA 13:10)

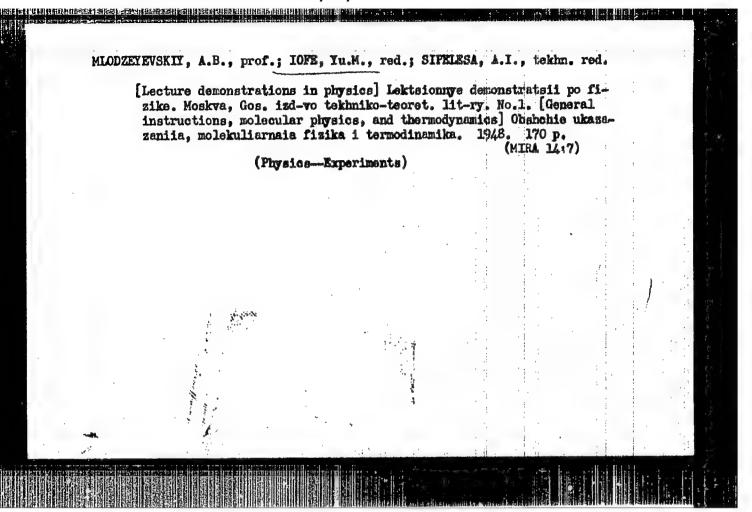
1. Leningradskiy institut vodnogo transporta.

(Petroleum as fuel) (Marine engines---Combustion)

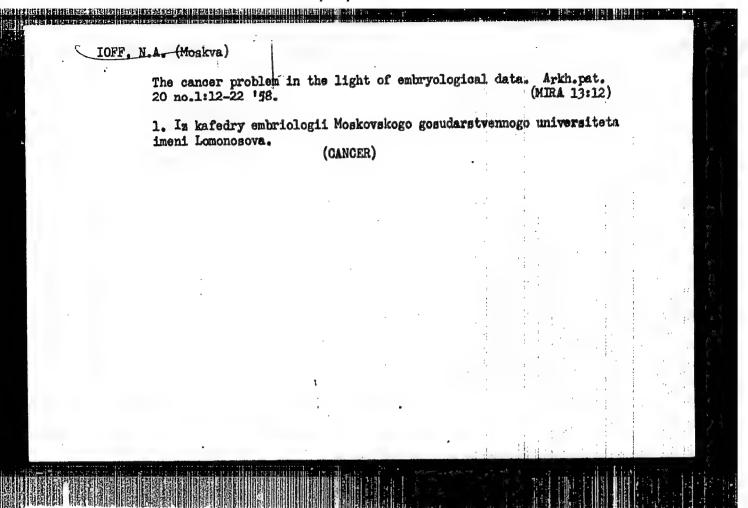


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IOFFA, I. A.

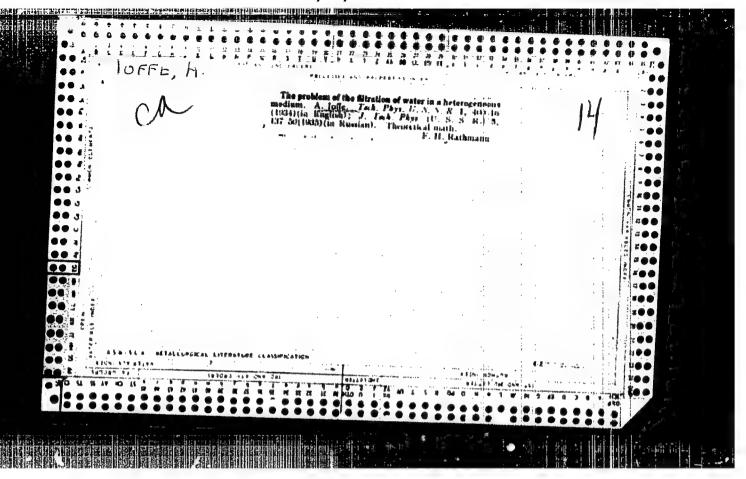
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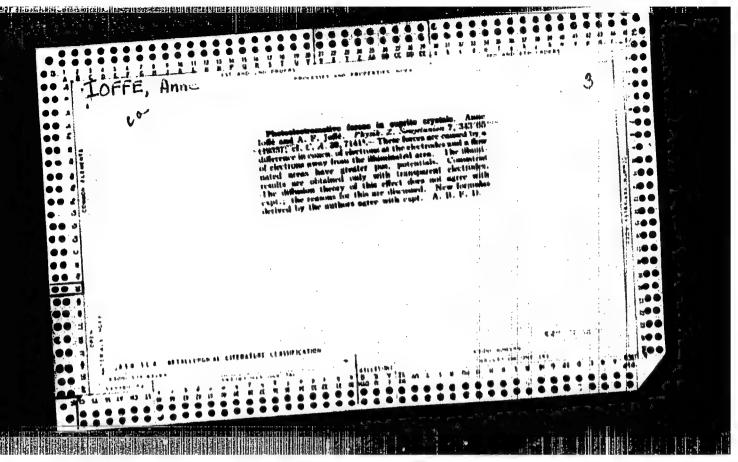
Vosstanovlenie instrumenta. Iz opyta Uralmashzavoda. (Novatory proizvodstva) Reconditioning tools; from experience of the Ural Heavy Machinery Factory (innovators of production). Mashgiz, Moskva-Sverdlovsk, 1953. 32 p.

SO: Monthly List of Russian Accessions, Vol. 7 No. 1 April 1954.

IOFFA, L. Ye. - "Cities in the Urals." Sub 28 Mar 52, Moscow
Order of Lenin State U Imeni M. V. Lomonosov. (Dissertation
for the Degree of Candidate in Geographical Sciences).

S0: Vechernaya Moskva January-Becember 1952





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USSR/Processes and Equipment for Chemical Industries.

Processes and Apparatus for Chemical Technology

Abs Jour : Referat Zhur - Khimiya, No 9, 1957, 33252

Author : Ioffe, A., Stillbans, L., Iordanishvili, Ye.,

Fedorovich, A. Inst

Title : Thermoelectric Cooling in Refrigeration Engineering

Orig Pub : Kholodil'naya tekhnika, 1956, No 3, 5-16

Abstract : A brief consideration of the physical phenomena upon which

the thermoelectric cooling is based, and a presentation of the fundamental propositions of the theory of A.I. Ioffe. A formula is given for determination of the refrigeration coefficient \mathcal{E} , from which it follows that \mathcal{E} does not depend on geometrical dimensions and shape of the thermoelements but is determined by the physical cha-

racteristics of semiconductor materials (thermal and electric conductivity, thermo e.m.f. of thermoelement branches)

Card 1/2

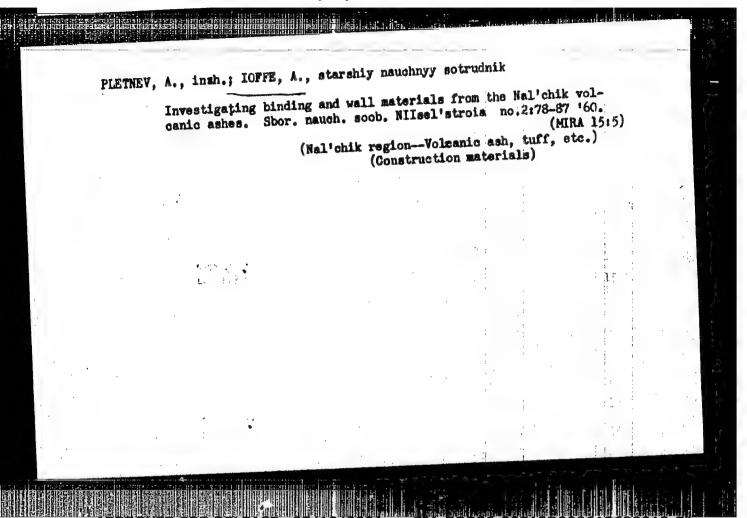
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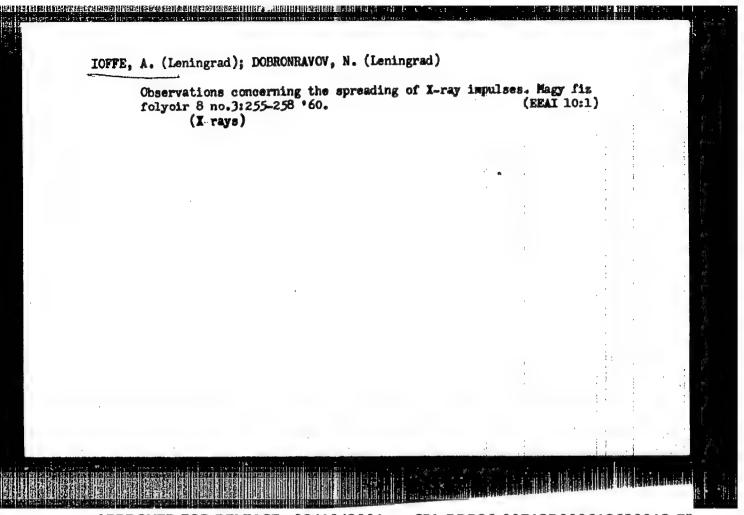
USSR/Processes and Equipment for Chemical Industries -

Processes and Apparatus for Chemical Technology

Abs Jour : Ref Zhur - Khimiya, No 9, 1957, 33252

and the temperature of hot and cold junctions t_2 and tx; with increase of Δ $t=t_2-t_x$ the $\mathcal E$ is greatly decreased and at a certain value Δ t_{max} it becomes equal to zero. In order to increase $\mathcal E$ it is necessary to use multicascade system cooling, in which several batteries are utilized, each of which operates at a lower Δ t and, consequently, at a higher $\mathcal E$. A brief description is given of thermo-electric refrigerators with batteries made from PbTe - PbSe alloys (negative branch) and an alloy based on Te and Sb (positive branch); Experience has shown that in the case of such batteries Δ t_{max} 470. Difficulties arise in the selection of electric insulation interlayers between the cascades which must have a sufficiently high heat conductivity. It was found that the best interlayer is one consisting of FG-9 silicone lacquer containing a 6% addition of Al powder.





311139 s/149/62/000/001/008/009 A006/A101

18.1246

Fedorov, P. I., Ioffe, A. A. AUTHORS:

TITLE:

On lithium-silicon alloys

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Tsvetnaya metallurgiya,

no. 1, 1962, 127 - 131

To complete data on the lithium-silicon system presented by H. Böhm, the authors have published data obtained by thermal and microstructural analysis of the system. The initial materials were lithium of 98.5% purity containing 0.8% Na, 0.2% K and 0.2% Mg and silicon of 98.5% purity containing iron, aluminum and calcium admixtures. The microstructural analysis was made with slow-cooled and cast alloys, produced in a special device. Results of the thermal analysis are tabulated and a constitutional diagram is given (Figure 2). The liquidus consists of three lines. Lines AB and BC correspond to the crystallization of two LiuSi modifications from the melt, designed as β and β , and line DC corresponds to the crystallization of phase with a higher Si content, which obviously corresponds to Li2Si silicide described in literature. The AK horizontal is an eutectic line. Interruptions on the cooling curves corresponding to this

Card 1/1 7

34139 S/149/62/000/001/008/009 A006/A101

On lithium-silicon alloys

line are observed at 182°C , whereas the lithium employed has a melting temperature of 185°C . Lithium silicide LiµSi dissociates at 636°C by a peritectic reaction (line CEF). Horizontals BG and HI are apparently associated with the polymorphous transformation of this silicide. Line BJ is an eutectoid and HI a peritectoid line. The homogeneous range of the β -phase extends from about 49 to 53 weight %. The composition point of LiµSi (50.3 weight % Si) is located within this range. Alloys containing over 50% Si are heterogeneous. The density of LiµSi is equal to 1.16 - 1.17. The chemical properties of lithium silicide were established by investigating the behavior of the alloy in respect to dry air, water, sulfur, liquid bromine, and other substances. There are 4 figures, 1 table and 8 references, 2 Soviet-bloc and 6 non-Soviet-bloc.

ASSOCIATIONS: Moskovskiy institut tonkoy khimicheskoy tekhnologii (Moscow Institute of Fine Chemical Technology) Kafedra khimii 1 tekhnologii redkikh i rasseyannykh elementov (Department of Chemistry and Technology of Rare and Dispersed Elements)

SUBMITTED: February 22, 1961

Card 2/1 2

BATALOV, Nikolay Mikhaylovich; BELIY, Belentin Antonovich; IONTE, Aleksandr Roriscwich; RABINOVICH, Aron Abramovich; SIMAYSKIY, Mikhail Mikhaylovich; IVANOV, V.M., red.; VORONIN, K.P., tekhn.red.

[Blectric motors for cranes and metallurgical plants; theory, construction, use] Kranovo-metallurgicheskie elektrodrigateli; teoriia, konstruktsiia, primenenie. Pod obshchel red. A.A.Rebinovichs. Moskva, Cos. energ. izd-vo. 1958. 168 p. (MIRA 11:5)

(Blectric motors)

ICFTE, A. B.

PA 16T86

USSE/Currents, Electric - Direct Motors, Electric

Jul 1947

"Computations for Direct Current Machines,"
A. B. Ioffe, 4 pp

"Vest Elektro Prom" No 7

Passage of current dispersed in the frontal parts of commutator cells under magnetic or non-magnetic bands. Reaction of rotors in machines with weak fields working under large overloads. The size of an ideal polar arc. Size of empere - turn casing. The uni-polar system of excitation. Nechanical voltage in heads of cells of Table.

فأحساء

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R00061862001

Nagnetic characteristics of auxiliary poles. Vest, elektropros, 18 no.12: 8-12 D '47. (MIRA 6:12)

1. Zavod "Dinamo" im. S.M. Kirova.

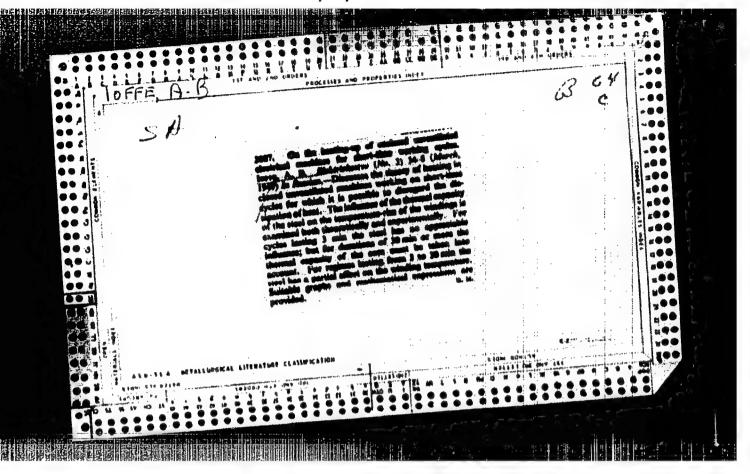
(Rheatric motors--Design and construction)

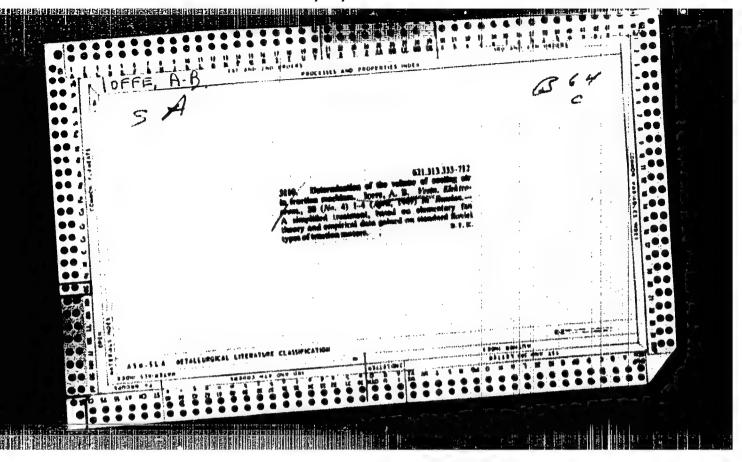
IOFFE, A.B., kandidat teknnicheskikh nauk.

Hew method of computing commutation losses in direct current machines.

Vest.elektroprom. 19 no.9:20-21 Mr "48. (MLRA 6:12)

1. Zavod "Dinamo" im. S.M.Kirova. (Commutation (Electricity))



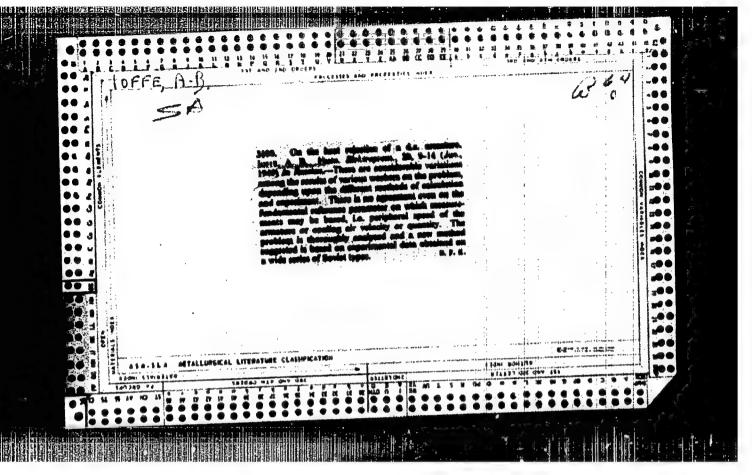


TOFFE, A. B.

33122

Znacheniya Koefitsiyentov Teplootdachi Aktivnykh Chastey Zakrytykh Elektricheskikh Mashin.
Vestnik Elektroprom-Sti, 1949, No 10, c. 1-6

S0: Letopis' Zhurnal'nykh Statey, Vol. 45, Moskva, 1949



10FFE, A. B.

Electrical Engineering Abstracts

May 1951

Machines.

Per the motor-units or concises on Soviet railways with 1969 vo operating votrage, strict connected pairs of 1569 v. street, Edentickens, 1964, 1864, 13-25. A because the motor of 1569 v. street, ownered pairs of 1569 v. street, on 1569 v. street, of 1569 v. street, of

IOTT Alexandr Borisovich; IVANOV, V.M., redaktor.; LARIONOV, G.Ye.,
teknicheskiy redaktor.

[Blectric traction machinery; theory, construction, design] Tiagovye
[Blectric traction machinery; theory, construction, design] Tiagovye
elektricheskie mashiny; teorita, konstruktsita, proektirovanie. Moelektricheskie mashiny; teorita, konstruktsita, proektirovanie. Moelektricheskie mashiny; teorita, konstruktsita, proektirovanie.

(MIRA 10:5)

ekva, Gos.energ.isd-ve, 1957. 247 p.

(Electric locomotives)

110-7-9/30 Ioffe A.B. (Cand. Tech. Sci.)

Concerning a traction motor for new motor coach sections. AUTHOR: (O tyagovom elektrodvigatele dlya novykh motorvagonnykh TITLE:

PERIODICAL: "Vestnik Elektropromyshlennosti" (Journal of the Electrical Industry), Vol.28, No.7, 1957, pp.30-33 (USSE)

ABSTRACT: At the present time a new series of motor coach sections type CH has been built and tested and preparations are being made for the output of further sections. Design work continues on the improvement of individual items of equipment. The first part of the article explains the difficult conditions of operation of traction motors par-ticularly in respect of exposure to dirt and water and mechanical shocks. The limitations on commutator design are explained. The decision that was taken after the war to electrify suburban railways at 3000 volts called for the development of a new electric motor to replace machine type AT 152 which was designed for 750/1500 V. Since the actual coaches and bogies were not changed the new electric motor type AK-103 had to be no bigger than machine type ANW-152 and so it had to be almost a true octagon in shape. (Fig.1). Therefore, the armature and commutator had to be

Card : 1/3

Concerning a traction motor for new motor coach sections. (Cont.) 110-7-9/30

of relatively small diameter. A number of design features and improvements that were made to motor type AK-103 are listed. They have ensured its satisfactory operation in service. However, it was undoubtedly necessary to improve the working conditions of the motor.

Apart from the possibility of using a 750-3000 V machine there was no possibility of making a radical improvement in the motor design with the given bogie. Work was started in 1951 on the design of a new motor type AK-106 intended for the new motor coach sections type CH. This motor, illustrated in Fig.4, is of 200 kW output at 830/1140 rpm (full and weakened field). The commutator diameter is 460 mm and the armature diameter 520 mm. This increase in commutator diameter for a given frame diameter was possible because the frame was made square. The maximum voltage between commutator bars in machine type AK-106 is 39 V. The voltage per centimeter of commutator circumference is 15% lower than in motor type AK-103. Tests on motor type AK-106 both on the bench and in a train provided general confirmation of the correctness of the design principles adopted. The specific weight of motor type AK-106 is

Card 2/3

Concerning a traction motor for new motor coach sections. (Cont.) 110-7-9/30

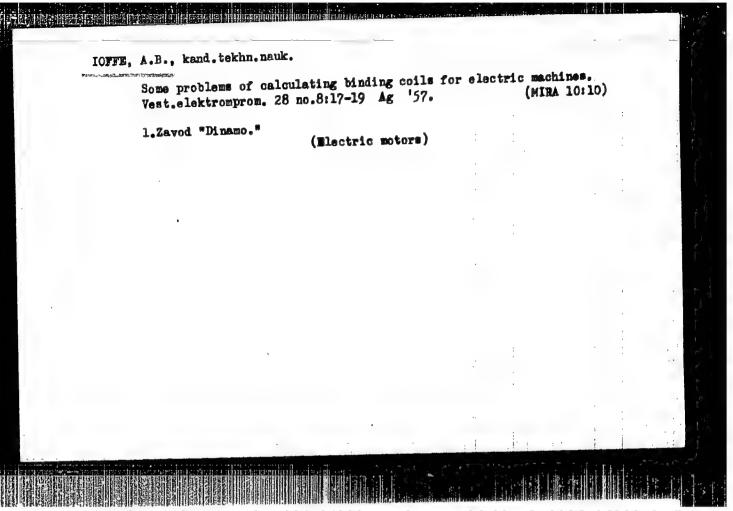
11.0 kg/kW as against 15 kg/kW for type AK-103. Improvement in the method of connecting the motor to the wheels is suggested. It is also important to develop regenerative braking for motor coach sections, which in practice will only be possible by adopting the author's suggestion to use motors of 750/3000 V.

There are 4 figures and 2 Slavio references.

ASSOCIATION: Dinamo Works. (Zavod "Dinamo")'.
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Card 3/3



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SOV/110-59-6-10/24

AUTHOR:

Ioffe, A.B., Candidate of Technical Sciences

TITLE:

Calculation of the Quality of Commutation of a Direct Current Motor with Pulsating Voltage Supply (O raschete kachestva kommutatsii elektrodvigatelya postoyannogo toka, pitayemogo ot pul'siruyushchego napryazheniya)

PERIODICAL: Vestnik elektropromyshlennosti, 1959, Nr 6, pp 44-47 (USSR)

ABSTRACT:

Traction motors supplied by semiconductor rectifiers look promising for electric locomotives. With this type of supply the voltage applied to the machine is pulsating and may be considered as the sum of a d.c. component and a second-harmonic a.c. component as indicated in Fig 1. In most practical cases the motor field winding is shunted by active resistance through which the second harmonic current passes and so there is practically no pulsation in the machine field current. There is, however, appreciable pulsation of the mmf of the interpole because pulsating current flows through the inter-pole windings. It causes eddy-currents in the inter-pole core and the frame, which upset the balance between reactive and commutating emf's because the change in flux of the

Card 1/4

SOV/110-59-6-10/24

Calculation of the Quality of Commutation of a Direct Current Motor with Pulsating Voltage Supply

inter-pole lags behind the change in current. causes sparking at the brushes. Mathematical analysis of these processes, which was first given by S.A.Petrov, is very complicated and the object of this article is to give a relatively simple and practical method of calculating the value of the inter-pole flux of a d.c. motor supplied by a pulsating voltage. The distribution of the magnetic flux in the solid core can be expressed The depth of by Eq (5) or the curve of Fig 2. penetration of the flux into the core, Ais determined from Eq (7). The permeability is influenced by the presence of the main d.c. field. Expression (8) is then given for the permeability of the inter-pole core and expression (9) for that of the machine frame. A method of successive approximations is used by selecting values for the induction under the inter-pole and the alternating component of the current. Expression (18) is then derived for the magnetising force and expression (19) for the pulsating component of the current where the number of turns on the inter-pole is given by expression (20). If

Card 2/4

sov/110-59-6-10/24

Calculation of the Quality of Commutation of a Direct Current Motor with Pulsating Voltage Supply

at the end of the calculation the current does not work out to the assumed value the calculation is repeated until satisfactory agreement is reached. Having found the induction under the inter-pole it is possible to determine the commutating emf: comparison with the reactive emf corresponding to the pulsating component of the current then indicates the degree of undercompensation. To determine the intensity of the consequent sparking in this case it is recommended to use the empirical graph in Fig 4. Here sparking is shown as a function of the remanent emf in the section of the winding short-circuited by the brush. Calculations by this procedure show that induction under the inter-poles is usually negative. It is shown that it does not help. to increase the section of the inter-pole and the introduction of a second air-gap in the inter-pole has little effect. It may help to laminate the inter-pole but the effectiveness of this measure is reduced because the machine frame is solid. By way of example, a numerical

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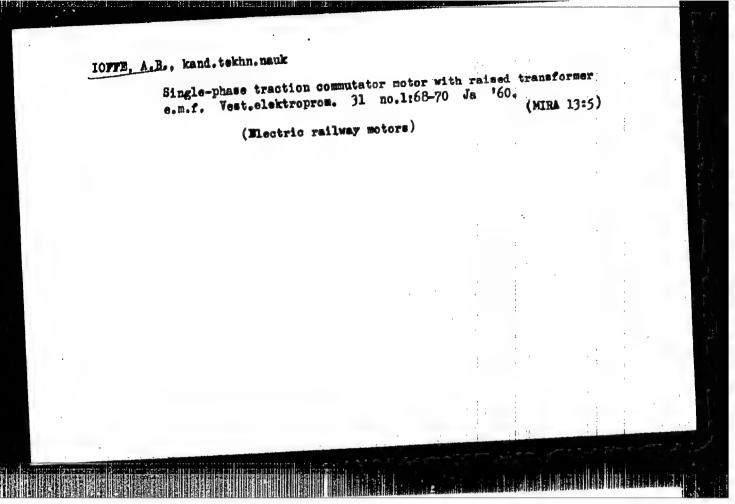
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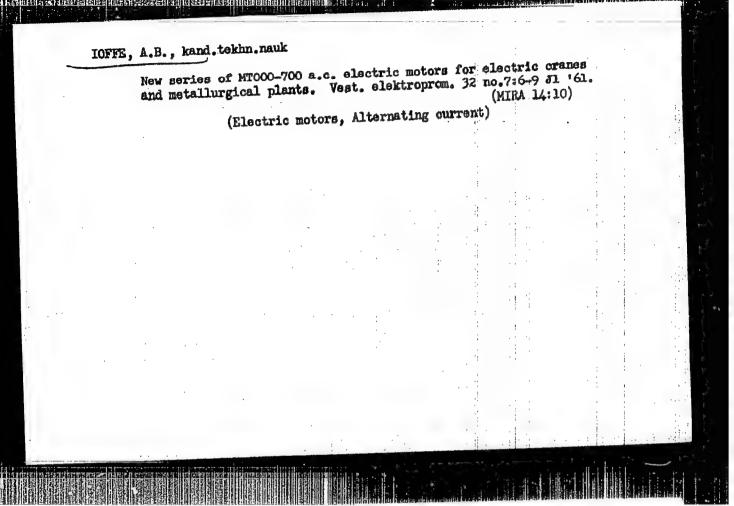
Calculation of the Quality of Commutation of a Direct Current Motor with Pulsating Voltage Supply

calculation is made of the induction under the inter-pole due to the second harmonic for an electric motor type KPDN4U, on which S.A.Petrov obtained his experimental data. There are 4 figures and 3 Soviet references.

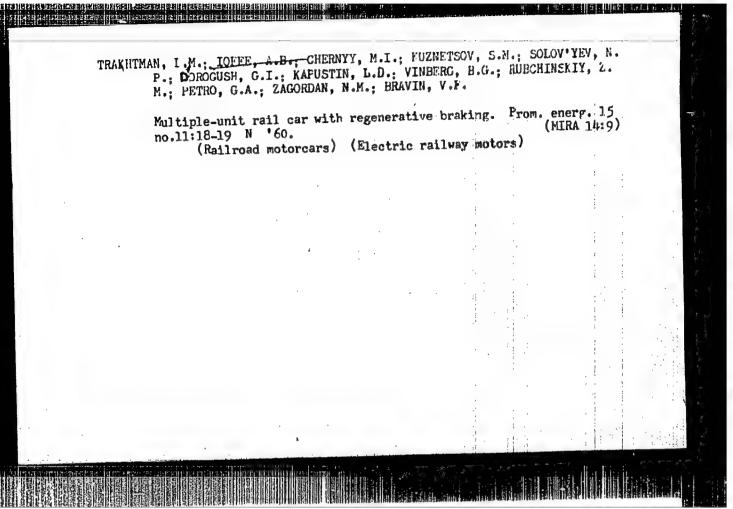
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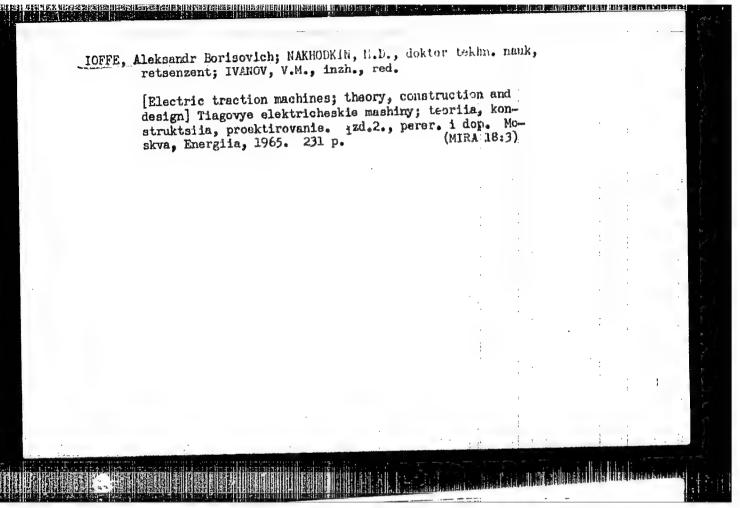


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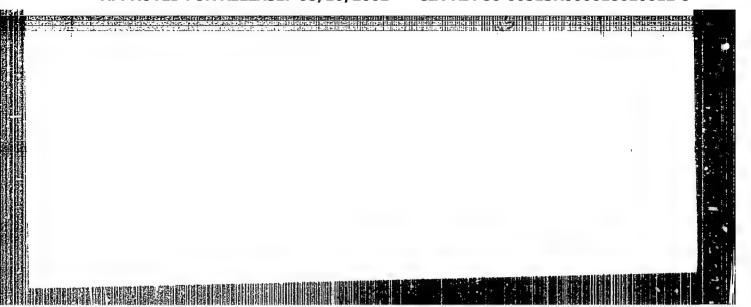
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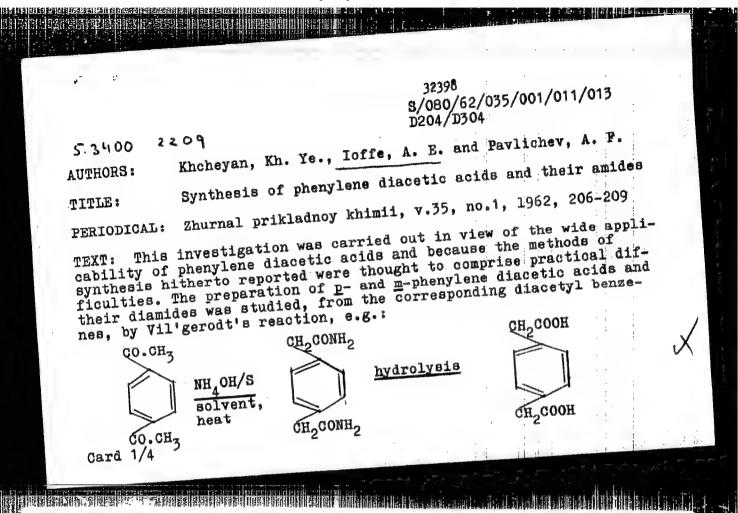




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in	$\hat{D}_{\bullet} = (y(t) \in$	$C_{[a,b]}^n$, $y(a) = y_b$, $y(b) = y_1$	$\dot{y}(t) \in \dot{Q}(t,y)$).; mc: 519	9.31/33

L 37654-66 ACC NR: AP6015601 If problem A is properly formulated, then problems A and B are equivalent. D_0 is the closure of D in Cⁿ/a, b/; $\inf_{D} I(y) = \inf_{D} \int \widetilde{F}(t, y, \dot{y}) dt;$ if the sequence $y_m(t) \in D$ minimizes I(y) in D, then it is a minimizing sequence for problem B. Conversely, for any sequence that minimizes $\int_{0}^{\infty} F(t, y, y) dt$ in D_O there exists a cofinal to it in C^n/a , b/7, which minimizes I(y) in D. If D is compact in is attained on some $\tilde{y}(t) \in D_{\bullet}$, and in D there exists a sequence $y_m(t) \rightarrow y(t)$ such that $\lim_{t \to \infty} I(y_m) = \int \tilde{F}(t, y(t), y(t)) dt$. Two examples are introduced. The author thanks V. M. Tikhomirov for valuable discussions and advice. This paper was presented by Academician A. N. Kolmogorov on 27 August 1965. Orig. art. has: 10 formulas. SUB CODE: 12/ SUBM DATE: 26Jul65/ ORIG REF:





32398 S/080/62/035/001/011/013 D204/D304

Synthesis of phenylene ...

The reactions were conducted in an autoclave, using either sulphur and 26% NH, OH or NH, + polysulphide, in pyridine, over 4.45 hours at 155 - 165°C, under a pressure of 15 - 20 atm. With ammonium polysulphide the yields reached 95%, but were decreased by shortening the reaction time and by changing the temperature or the ratio of the reactants. It was shown that the sulphur could be regenerated and re-used. A direct preparation by acid or alkaline hydrolysis of the reaction mass, without separating the amide, and using S/NH, OH, was also achieved, with 85-90% yields. The latter were reduced to 70 - 75% when methanol was used in place of pyridine and to 40 - 50% when the reactions took place at 210 - 220°C in the absence of a solvent. Phenylene diacetic acids were also prepared by the Vil'gerodt-Kindler reaction, using morpholine and S, obtaining 80 - 85% and 70 - 75% yields of the p- and m-isomers respectively. The preparations were conducted at the b.p. of morpholine. The following conditions were carried out: (a) Reaction times (1 - 4 hrs), (b) diacetyl benzene: morpholine: sulphur ratio (1:4:4), (c) duration of the alkaline hydrolysis (9 - 16 hours) and (d) con-Card 2/4

32398 S/080/62/035/001/011/013 D204/D304

Synthesis of phenylene ...

centration of the hydrolyzing alkaline solution (10 - 20%). It was found that the reduction of the reaction time to 1 hour, reactant-ratio to 1:2:2 and alkali concentration to 10% lowered the yields to 25 - 50%. The starting materials (diacetyl benzenes) were obtained by the aerial, liquid-phase oxidation of a mixture of ethyl benzenes at 130 - 140°C, using Co oleate and iso-propyl benzene hydrogen peroxide as the catalysts. All experimental details zene hydrogen peroxide as the catalysts. All experimental details are given in full. The process is considered to be simple and economical and capable of utilization on an industrial scale. There nomical and capable of utilization on an industrial scale. There are 1 figure and 25 references: 5 Soviet-bloc and 20 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: Sh. Murahashi and R. Anzai, Ch. A., 44, tions read as follows: Sh. Murahashi and R. Anzai, Ch. A., 44, tions read as follows: Sh. Murahashi and R. Anzai, Ch. A., 44, tions read as follows: Sh. Murahashi and R. Anzai, Ch. A., 44, tions read as follows: Sh. Murahashi and R. Anzai, Ch. A., 44, tions read as follows: Sh. Murahashi and R. Anzai, Ch. A., 44, tions read as follows: Sh. Murahashi and R. Anzai, Ch. Sci., 8, 1, (1952); 1106, (1950); O. B. Edgar and R. Hill, J. Pol. Sci., 8, 1, (1952); P. V. Smith and F. Knoth, U.S. Pat. 2,570,038, (1951); K. Schofield and R. S. Theobald, J. Chem. Soc., 2404, (1949).

ASSOCIATION: Nauchno-issledovatel'skiy institut sinteticheskikh spirtov (Scientific research Institute of Synthetic Alcohols)

Card 3/4

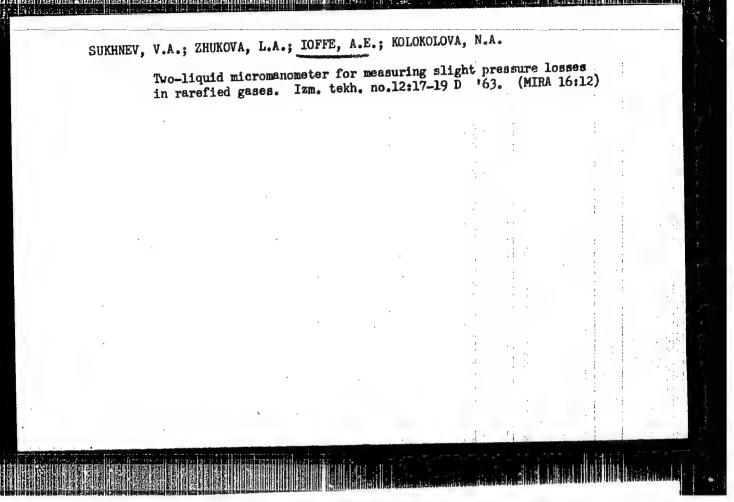
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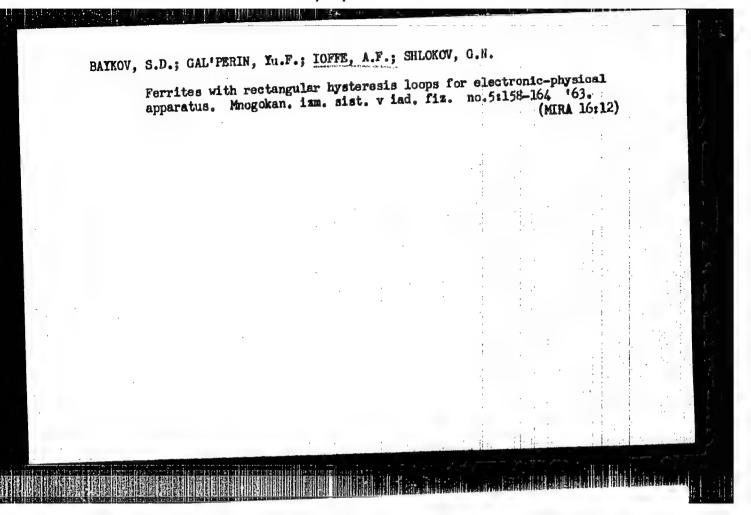
YAKORSON, G.G.; LAFFE, A.E.; VOROZHTSOV, mladshiy, M.N.

Alkylation and arylation of aromatic amines in the presence of metal fluorides. Izv. SO AN SSSR no.3 Ser. khim. nauk no.1: 156-158 163.

1. Novosibirskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR i Khimiko-tekhnologicheskiy institut im. D.I. Mendeleyeva, Muskva.

(Amines) (Alkylation) (Arylation)





APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000618620012-5"

SOURCE CODE: UR/00/58/65/000/011/A027/A027 AR6016154 ACC NR TITLE: Operating principle of scale circuits for multi-hole cores with magnetic de-AUTHOR: loffe, A. F. coupling 16 SOURCE: Ref. zh. Fizika, Abs. 11A279 REF SOURCE: Tr. 6-y Nauchno-tekhn. konferentsii po yadern. radioelektron. T. 1. Atomizdat, 1964, 208-222 TOPIC TAGS: computer memory, magnetic core storage, computer storage device ABSTRACT: Scaler circuits with transformer-fluxors (T), used for the construction of apparatus that operates reliably at a high level of penetrating radiation, are considered. Several scaler circuits are proposed, which are analyzed from the point of view of obtaining the maximum volume and the counting rate with minimum number of T and timing generators, uniform distribution of the load on these generators, and minimum total power consumption by the circuit. A magnetic-flipflop circuit is described with a counting input using 5-hole T's. The flip-flop consists of four T's. A binary scaler circuit, constructed with such flip-flops and a scaler factor 2n, uses a total of 4n T's. Single-step and push-pull ring scaler circuits are described, and also scaler circuits with logical feedback. Circuits of the latter type are of particular interest since the binary cell contains 4 times more cores than the ring cell. From a comparison of all the circuits considered it follows that the most suitable for the

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SOURCE CODE: UR/0271/66/000/001/B026/B026

AUTHOR: Ioffe, A. F.

32

B

TITLE: Patterns for designing scaling circuits using multihole cores with magnetic decoupling

SOURCE: Ref. zh. Avtomat. telemekh. i vychisl. tekhn., Abs. 1B182

REF SOURCE: Tr. 6-y Nauchno-tekhn, konferentsii po yadern, radioelektron, T. I. M., Atomizdat, 1964, 208-222

TOPIC TAGS: scaling circuit, trigger circuit, transfluxor, magnetic core, multihole core, magnetic decoupling

ABSTRACT: The paper concerns scaling circuits using transfluxors (T) for designing equipment with reliable operation at a high level of penetrating radiation. Many scaling circuits are proposed which are studied for obtaining maximum count volume and rates with minimum T and system clocks, and with an even load distribution on these closks and minimum overall requirements for the

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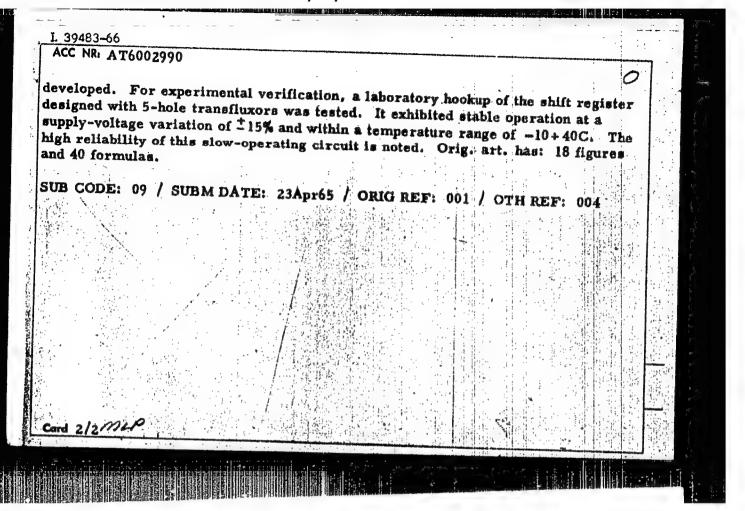
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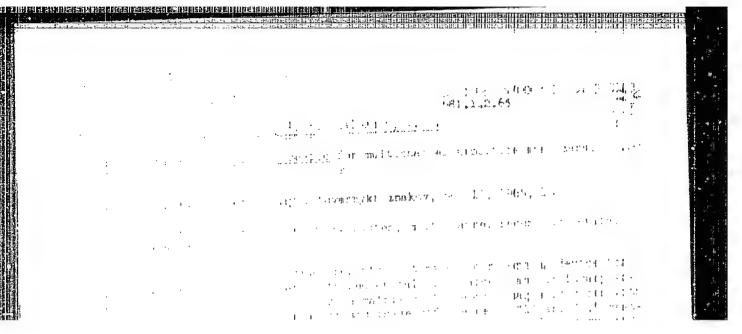
circuit. A magnetic trigger circuit with a digital input using five-hole trans-fluxors is described. The trigger consists of four T. A binary scaling circuit utilizing such triggers with a scaling factor of 2ⁿ requires 4n T. Single-cycle and push-pull ring scaling circuits, as well as logic feedback ring circuits, are described. The logic circuits are of special interest as a binary cell has four times as many cores as a ring circuit. Comparison of the various circuits in question leads to the conclusion that a single-cycle ring circuit with a logic feedback is the most advantageous becasue it has a small number of T and clocks and a high scaling factor. Orig. art. has: 9 figures and a bibliography of 12 titles. [Translation of abstract]

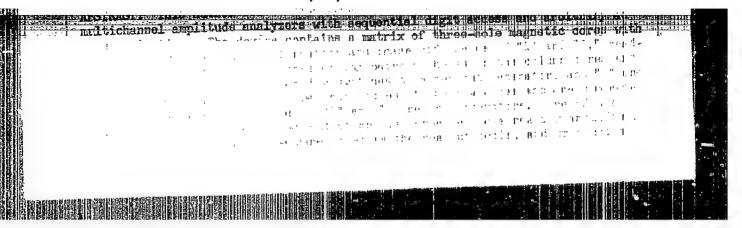
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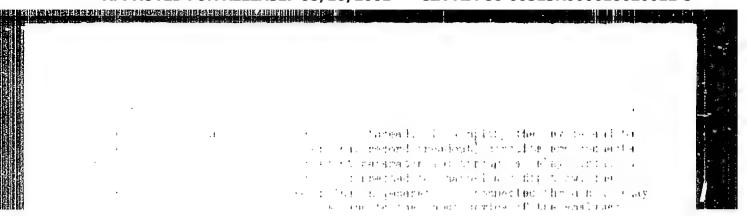
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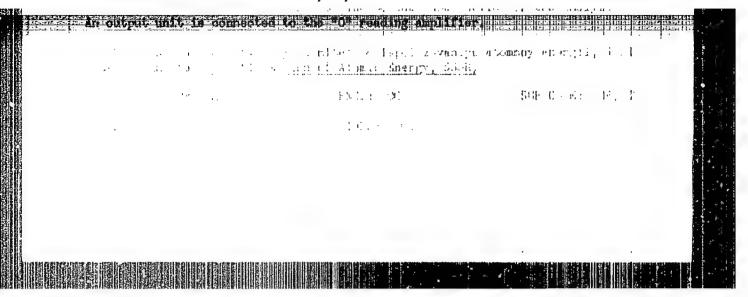
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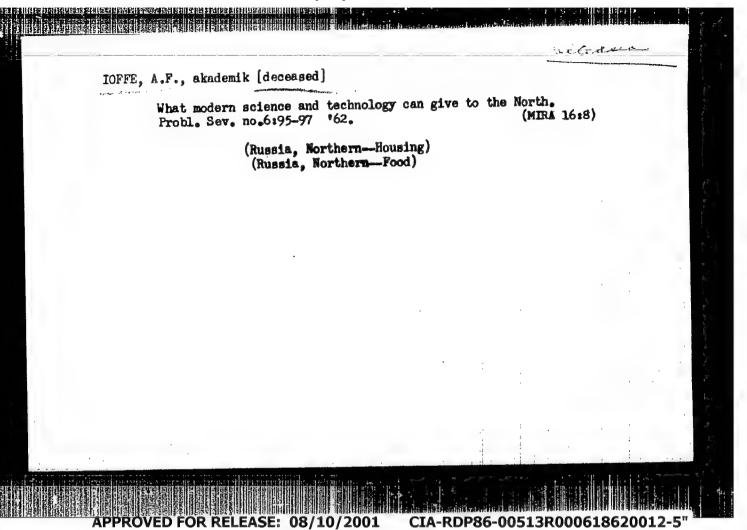








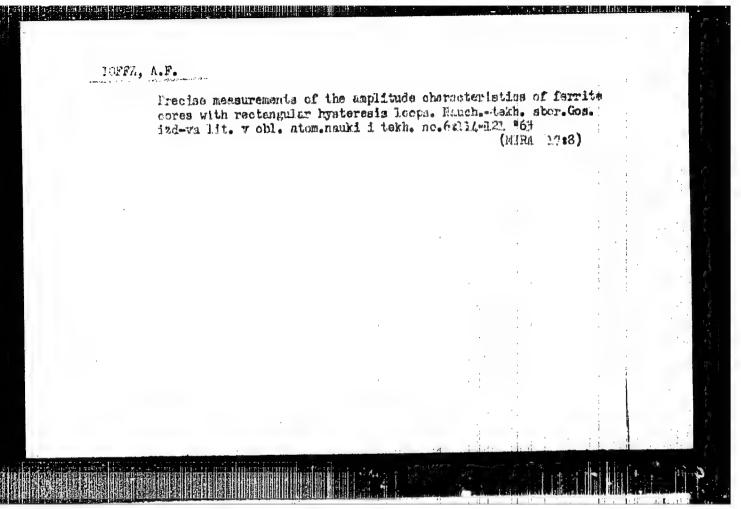


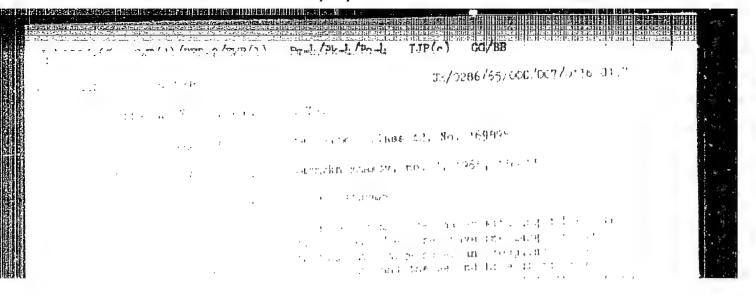


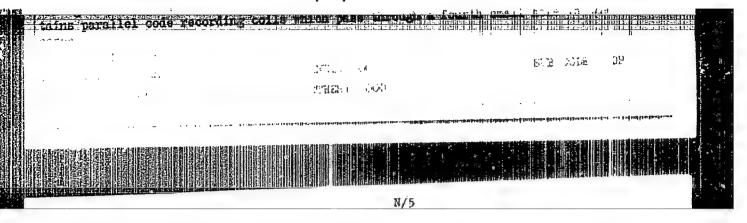
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IOFFE, Anatoliy Fedorovich: FILINOV, Yevgeniy Nikolayevich; VIZUN,
Yu.I., red.; BUL'DYAYEV, N.A., tekhn. red.

[Measurement of the parameters of ferrite cores having
rectangular hysteresis loops] Izmerenie parametrov ferfitovykh serdechnikov s priamougol'noi petlei gisterezima.
Moskva, Gosenergoisdat, 1963. 134 p. (MIRA 16:9)
(Ferrates (Magnetic materials)) (Cores (Electricity))







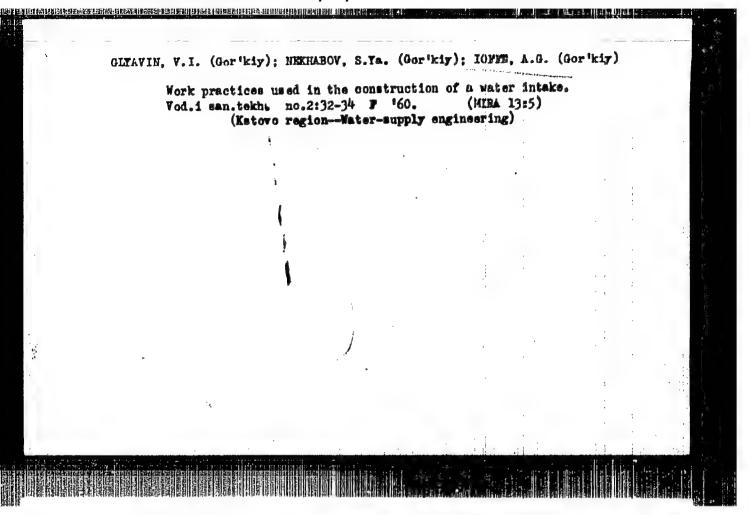
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Poluprovodniki v sovremennoyfizike (Semiconductors in contemporary physics) Moskva, Akademkniga, 1954.

355 p. gra hs.

At head of title: Akademiya Nauk SSSR.

"Osnovaya liter tura po poluprovodnikam": p. 351-352.



25(6) ·

907/32-25-2-41/78

AUTHORS:

Krichmar, S. I., Ovcharenko, V. N., Ioffe, A. I.

TITLE:

Automatic Gas Analyzer for the Determination of Inert Gases in Ammonia (Avtomaticheskiy gazoanalizator dlya opredeleniya

inertnykh gazov v ammiake)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 2,

pp 213 - 215 (USSR)

ABSTRACT:

The apparatus described (Fig) permits a continuous inspection of the gases used in the production of weak nitric acid. The rate of displacement of a constant volume of an absorption liquid in a eudiometer by the gases remaining after the absorption of ammonia in the absorption liquid is measured. The apparatus has electrically operated valves of the KE-2 type, an automatically balanced bridge EMD-212, and a synchronous motor SD-60 (for turning the timing relais), as well as an EPD potentiometer. The inert-gas content is recorded automatically. A detailed description of the apparatus is contained

in the article, and it is mentioned that with the EPD

Card 1/2

potentiometer it is necessary to correct the delay, which is not true in the case of EPP-09. The total error is given

Automatic Gas Analyzer for the Determination of Inert Gases SOV/32-25-2-41/78 in Ammonia

as ± 15%. In experimental operation of the apparatus described the following conditions were obtained: Pressure of ammonia at input -500-700 mm water column, gas consumption according to the manostat - 1.5 l per hour, duration of analysis - 8 minutes, absorption liquid to be replaced once a week - 3 l of 25% H₂SO₄, measuring range 0.05-1.5%. A calculation formula as well as a comparative table of the analysis results obtained with this apparatus and the results of chemical analyses are given (Table). There are 1 figure and 1 table.

ASSOCIATION:

Dneprodzerzhinskiy azotno-tukovyy zavod (Dneprodzerzhinski Nitrogen-Fertilizer Plant)

Card 2/2

OFFE, A.T.

83279

3/021/60/000/001/009/013 A158/A029

15,9130

AUTHORS:

Ovcharenko, F.D., Corresponding Member of the AS UkrSSR;

A.; Hudovich, H.V.; Joffe, A.I.

TITLE:

Activated Diatomite - a New Rubber Filler

PERIODICAL:

Dopovidi Akademiyi nauk Ukrayins'koyi Radyans koyi Sotsialistychnoyi

Respubliky, 1960, No. 1, pp. 54 - 59

In his other work (Ref. 2) the first author showed that pyrophyllite can be used in the manufacture of rubber cables, yet the strength of rubber obtained with its use is relatively low (60 kg/cm after 30 - 60 min of vulcanization at 145°C), which calls for a strengthening of such fillers through activation. The authors used the following activating agents: 1) alcamon OC-2 (OS-2), an activated Crimean diatomite (a quarternary salt of diethylamino-methylglycolic ether) that increases the strength criteria by 50 - 60% as compared to unactivated fillers during a short period (only 4 - 10 min instead of 30 - 60 min and more) and accelerates the process of vulcanization; 2) carbazolin, a quarternary salt of imidazole derivatives; 3) equalizer A, a preparation of mixed cation-active and non-ionogen types. The Crimean diatomite consisted of (in %): 8102 65.38;

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Activated Diatomite - a New Rubber Filler

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CaO 2.00; Al₂O₃ 15.43; MgO 2.43; Fe₂O₂ 5.82; SO₃ 1.20; (K, Na) Cl 0.5. Even when alcamon OS-2 was introduced directly on the rollers into a rubber mixture filled with natural diatomite, strengthening of the rubber and acceleration of vulcanization were observed. The indicated positive results should be explained as a change in the chemical nature of the diatomite surface into an organophillic surface, and by the peculiarities of the structure of natural diatomite, which is capable of interacting with the structure of rubber. Table 1 shows chemico-mechanical properties of rubbers obtained with the use of pyrophyllite and diatomite. Table 2 shows the percentage of activating substances in rubbers at various regimes of vulcanization. Table 3 gives the results of the adding aleamon to rubber (in %) under various conditions of vulcanization. There are 3 tables and 3 Soviet references.



ASSOCIATION: Instytut zagal'noyi ta neorganichnoyi khimiyi AN UkrSSR ta Dnipropetrovs kyy khimiko-tekhnologichnyy instytut (Institute of General and Inorganic Chemistry of the AS UkrSSR and the Dnepropetrovsk

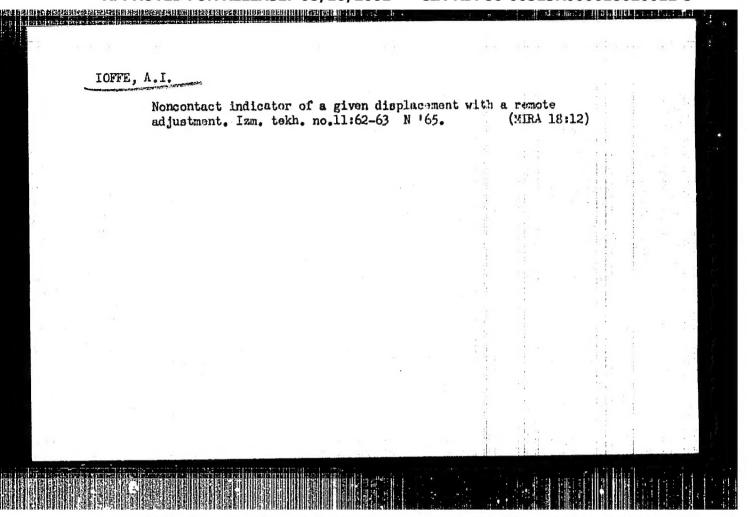
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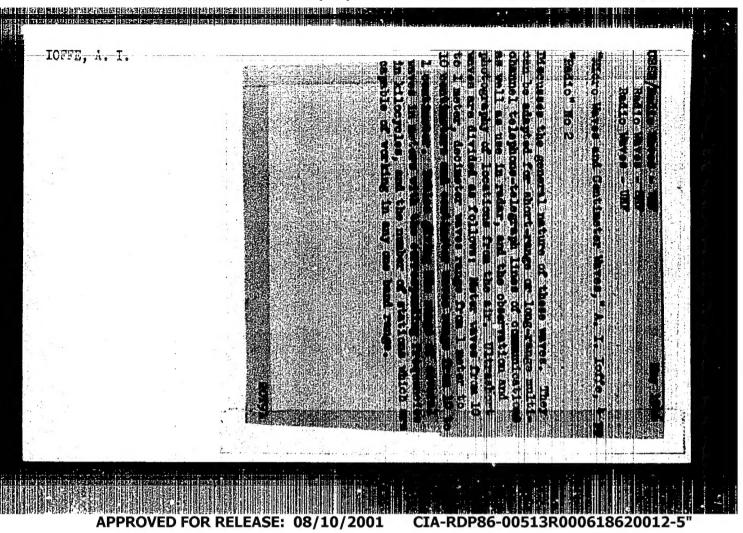
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AUTHOR: Levitin, I. A.; Petrova, V. D.;	Marchenko, Ye. D.; Lo	ffe, A. I.	F2	
ORG: Moscow Tire Plant (Moskovskiy shin	nyy zavod)	2 1	B	14 4
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SOURCE: Kauchuk i rezina, no. 12, 1965,	24-25			in the state of th
TOPIC TAGS: rubber chemical, antioxidan	additive, reding	Haffie rullar, a	elicle	F.
ABSTRACT: The Moscow Tire Plant (Moskov	kiy shimnyy zavod) an	d Moncos Petro	etm .	
and Oil Refinery (Moskovskiy neftemasloz	wod) developed a want	ille intiozonani	: CO12-	
posed of natural and synthetic coresin, ceresins being predominant. A thorough	study of the new entito	zonant. AF-13	ing in	
carried out in tread rubbers composed of of AF-1 were found to compare very favor	00% SKNS-30ARKM. No the	protective pro	merties	
antiozonant. AF-1 has now replaced Anti	ux at the Moscow Tire	Plant, and it	use	
in the tire and rubber industry for prot cracking is highly recommended. Orig. a	ection of rubber tread	s aguinst ozone		
		a J Laules.		
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